

Application No. 09/845,160

Atty. Dkt. No. 081356-0163

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for constructing a fiber-mutant adenovirus vector which comprises the following steps: of inserting a restriction enzyme recognition sequence which is not originally present in adenovirus genomic DNA into a fiber HI loop coding gene sequence, and introducing a foreign peptide coding DNA into the gene sequence.

(a) preparing a plasmid having a complete adenovirus genome except for the E1 and E3 regions,

(b) inserting a Csp45I and/or ClaI recognition sequence into a fiber HI loop-coding gene sequence of the plasmid,

(c) synthesizing an oligonucleotide having a foreign peptide-coding DNA and a Csp45I and/or ClaI recognition sequence, and

(d) introducing the synthesized oligonucleotide directly into the fiber HI loop-coding gene sequence of the plasmid digested with the Csp45I and/or ClaI.

2. (Canceled).

3. (Previously presented) The method according to claim 1 wherein the foreign peptide is a peptide having tropism for tumor vascular endothelial cells.

4. (Canceled).

5. (Previously presented) The method according to claim 3 wherein the foreign peptide having tropism for tumor vascular endothelial cells is a peptide containing a tripeptide: R-G-D.

6. (Canceled)

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7. (Previously presented) The method according to claim 3 wherein the peptide having tropism for tumor vascular endothelial cells is a peptide containing a tripeptide: N-G-R.

8. (Canceled)

9. (Previously presented) A fiber-mutant adenovirus vector which is constructed by the method according to claim 1.

10. (Canceled)

11. (Previously presented) A fiber-mutant adenovirus vector which is constructed by the method according to claim 3.

12. (Canceled)

13. (Previously presented) A fiber-mutant adenovirus vector which is constructed by the method according to claim 5.

14. (Canceled)

15. (Previously presented) A fiber-mutant adenovirus vector which is constructed by the method according to claim 7.

16. (Canceled)

17. (Currently amended) An adenovirus vector which comprises a Csp45I and/or Clal restriction-enzyme recognition sequence ~~which is not originally present in adenovirus genomic DNA site~~ in the fiber HI loop-coding gene sequence.

18-20. (Canceled)